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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF BITUMEN CORE
(IRC:SP:57-2000)

CP ID: CP-2106-06-11-01-01 Date: 13-06-2016

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore

Project Name : Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08, Yelahanka Zone.

Agency : PJB Engineer Pvt. Ltd.,
No.143, Tathan Building, 4th Floor, Richmond road, Bangalore-560025

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Type of Mix DBM (Dense Bituminious Macadam)

Date of test: 13-06-2016

Required thickness : DBM : 50 mm				
Sl. No	**Chainage (meter)**	**Location**	**Core Thickness (mm)**	**Density (g/cc)**
1	100	Center	51	2.39
2	220	RHS	50	2.40

Note:-
The results pertain to the samples received and tested.
Any correction in the report will make this report invalid.
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Samples will be disposed after 15 days from the date of issue of test certificate

Prepared By:
Arunakshi.P
JE 13/6

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signature
Technical Manager
Date.....

CIVIL PRO BANGALORE

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF BITUMEN CORE
(IRC:SP:57-2000)

CP ID: CP-2106-06-11-01-01 **Date: 13-06-2016**

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore

Project Name Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08, Yelahanka Zone.

Agency : PJB Engineer Pvt. Ltd.,
No.143, Tathan Building, 4th Floor, Richmond road, Bangalore-560025

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Type of Mix SDBC (Semi Dense Bituminious Concrete)

Date of test: 13-06-2016

Required thickness : SDBC : 25 mm				
Sl. No	Chainage (meter)	Location	Core Thickness (mm)	Density (g/cc)
1	100	Center	25	2.42
2	220	RHS	26	2.44

Note:-
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Prepared By:
Arunakshi.P

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R KARTHIK RECHAN
Authorized Signature
Technical Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

SPECIFIC GRAVITY AND WATER ABSORPTION TEST
IS:2386 Part III

CP ID: CP-2016-06-04-01-01 **Date:** 10/6/2016

Client : Assistant Executive Engineer, Yelahanka Sub Division , BBMP, Bangalore

Project Name Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone.

Agency : PJB Engineer Pvt. Ltd.,
No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Type of Mix DBM (Dense Bituminous Macadam)

Date of test: 6/6/2016

Sl.No	Details of Observations	Index	Unit	Test 1	Test 2	Mean Value
1	Weight of Wet aggregates + Basket suspended in water	A1	grams	2365	2295	
2	Weight of Empty Basket suspended in water	A2	grams	791	791	
3	Weight of Aggregates in water	A=A1-A2	grams	1574	1504	
4	Weight of Saturated Surface Dry aggregate	B	grams	2522	2402	
5	Weight of oven dried aggregate	C	grams	2515	2394	
6	Specific gravity	C/(B-A)		2.65	2.67	2.66
7	Apparent Specific gravity	C/(C-A)		2.67	2.69	2.68
8	Water absorption	100*(B-C) /C	Percent	0.28	0.33	0.31

Note:-
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Authorized Signature
Technical Manager

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Date.....

Prepared By:
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Asst. Executive Engineer
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Bangalore

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

SPECIFIC GRAVITY AND WATER ABSORPTION TEST
IS:2386 Part III

CP ID: CP-2016-06-06-05-01

Date: 9/6/2016

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore

Project Name Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone.

Agency : PJB Engineer Pvt. Ltd.,
No.143, Tathan Building, 4th Floor, Richmond road, Bangalore-560025

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Type of Mix SDBC (Semi Dense Bituminous concrete)

Date of test: 6/6/2016

Sl.No	Details of Observations	Index	Unit	Test 1	Test 2	Mean Value
1	Weight of Wet aggregates + Basket suspended in water	A1	grams	2295	2250	
2	Weight of Empty Basket suspended in water	A2	grams	791	791	
3	Weight of Aggregates in water	A=A1-A2	grams	1504	1459	
4	Weight of Saturated Surface Dry aggregate	B	grams	2432	2348	
5	Weight of oven dried aggregate	C	grams	2424	2340	
6	Specific gravity	C/(B-A)		2.61	2.63	2.62
7	Apparent Specific gravity	C/(C-A)		2.63	2.66	2.65
8	Water absorption	100*(B-C) /C	Percent	0.33	0.34	0.34

Note:-
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Prepared By:
Saritha

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007)

CP ID:	CP-2016-06-06-04-01 Date: 8/6/2016
Client :	Executive Engineer
Project Name	Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone.
Agency:	PJB Engineer Pvt. Ltd., No.143, Tathan Building, 4th Floor, Richmond road, Bangalore-560025
Work Order No:	EE(Project)/Ynk Zone/WO/11/12-13
Type of Mix	SDBC (Semi Dense Bituminous Concrete)
Date of test:	7/6/2016

Result:

Flakiness Index = 12.18 %

Elongation Index = 13.65%

Result: Combined Flakiness & Elongation Index for WMM = 25.83 %

Comments:

Maximum allowable Flakiness & Elongation Index For SDBC is 30 %

Note:-

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R KARTHIK RECHAN
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Prepared By:
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF BITUMEN CONTENT FOR SDBC
(AS per IRC:SP:-11-1984)

CP ID: CP-2016-06-06-01-1 Date: 6/6/2016

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore

Project Name Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone

Agency : PJB Engineer Pvt. Ltd.,
No.143, Tathan Building, 4th Floor, Richmond road, Bangalore-560025

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Type of Mix SDBC (Semi Dense Bituminous Concrete)

Date of test: 6/6/2016

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	502	509
2	Weight of the sample After extraction	B	475	482
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.38	5.30
4	Average percentage	%	5.34	

Note:-
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Samples will be disposed after 15 days from the date of issue of test certificate

Prepared By:
Saritha

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TEST RESULTS OF BITUMEN CONTENT FOR SDBC
(AS per IRC:SP:-11-1984)

CP ID: CP-2016-06-06-01-01 Date: 6/6/2016

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore

Project Name: Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone.

Agency : PJB Engineer Pvt. Ltd.,
No.143, Tathan Building, 4th Floor, Richmond road, Bangalore-560025

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Type of Mix SDBC (Semi Dense Bituminous Concrete)

Date of test: 6/6/2016

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	501	510
2	Weight of the sample After extraction	B	475	484
3	Bitumen percentage	$\frac{A-B}{A}$ X 100	5.19	5.10
4	Average percentage	%	5.14	

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TEST RESULTS OF GRADATION FOR SDBC
IS 2386 (Part 1) 1963 (RA 2007)

CP ID: CP-2016-06-06-02-01 Date: 6/6/2016

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore

Project Name Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone.

Agency : PJB Engineer Pvt. Ltd.,
No.143, Tathan Building, 4th Floor, Richmond road, Bangalore-560025

Work Order No: EE(Project)/Ynk Zone/wo/11/12-13

Type of Mix SDBC (Plant)

Date of test: 6/6/2016

Oven Dry Weight(gm) : 5000

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100	100
9.5	350	350	7.00	93.00	90-100
4.75	2199	2549	50.98	49.02	35-51
2.36	990	3539	70.78	29.22	24-39
1.18	405	3944	78.88	21.12	15-30
0.3	419	4363	87.26	12.74	9-19
0.075	482	4845	96.90	3.10	3-8
PAN	155	5000	100.00	0.00	0

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Prepared By:
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TEST RESULTS OF GRADATION FOR SDBC
IS 2386 (Part I) 1963 (RA 2007)

Date: 6/6/2016

CP ID: CP-2016-06-06-01-01
Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore
Project Name: Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone.
Agency : PJB Engineer Pvt. Ltd.,
No.143, Tathan Building, 4th Floor, Richmond road, Bangalore-560025.
Work Order No: EE(Project)/Ynk Zone/WO/11/12-13
Type of Mix SDBC (Semi Dense Bituminous Concrete)
Date of test: 6/6/2016

AFTER EXTRACTION

TRAIL 1

Oven Dry Weight(gm) : 475

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100	100
9.5	19	19	4.00	96.00	90-100
4.75	255	274	57.68	42.32	35-51
2.36	61	335	70.53	29.47	24-39
1.18	25	360	75.79	24.21	15-30
0.3	60	420	88.42	11.58	9-19
0.0175	29	449	94.53	5.47	3-8
PAN	26	475	100.00	0.00	0

TRAIL 2

Oven Dry Weight(gm) : 482

IS Sieve Size(mm)	Weight Retained(gm	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100	100
9.5	32	32	6.64	93.36	90-100
4.75	210	242	50.21	49.79	35-51
2.36	60	302	62.66	37.34	24-39
1.18	58	360	74.69	25.31	15-30
0.3	80	440	91.29	8.71	9-19
0.0175	28	468	97.10	2.90	3-8
PAN	14	482	100.00	0.00	0

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Date
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Technical Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR SDBC
IS 2386 (Part 1) 1963 (RA 2007)

CP ID: CP-2016-06-06-01-01 Date: 6/6/2016

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore

Project Name Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone.

Agency : PJB Engineer Pvt. Ltd.,
No.143, Tathan Building, 4th Floor, Richmond road, Bangalore-560025

Work Order No: EE(Project)/Ynk Zone/wo/11/12-13

Type of Mix SDBC (Semi Dense Bituminous Concrete)

Date of test: 6/6/2016

AFTER EXTRACTION

TRAIL 1

Oven Dry Weight(gm) : 475

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100	100
9.5	30	30	6.32	93.68	90-100
4.75	213	243	51.16	48.84	35-51
2.36	63	306	64.42	35.58	24-39
1.18	39	345	72.63	27.37	15-30
0.3	69	414	87.16	12.84	9-19
0.0175	34	448	94.32	5.68	3-8
PAN	27	475	100.00	0.00	0

TRAIL 2

Oven Dry Weight(gm) : 484

IS Sieve Size(mm)	Weight Retained(gm	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100	100
9.5	32	32	6.61	93.39	90-100
4.75	218	250	51.65	48.35	35-51
2.36	60	310	64.05	35.95	24-39
1.18	49	359	74.17	25.83	15-30
0.3	63	422	87.19	12.81	9-19
0.0175	42	464	95.87	4.13	3-8
PAN	20	484	100.00	0.00	0

JE

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR SDBC
IS 2386 (Part 1) 1963 (RA 2007)

Date: 6/6/2016

CP ID: CP-2016-06-06-02-01
Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore
Project Name Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone.
Agency : PJB Engineer Pvt. Ltd.,
No.143, Tathan Building, 4th Floor, Richmond road, Bangalore-560025
Work Order No: EE(Project)/Ynk Zone/wo/11/12-13
Type of Mix SDBC (Plant)
Date of test: 6/6/2016
Oven Dry Weight(gm) : 5000

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100	100
9.5	410	410	8.20	91.80	90-100
4.75	2187	2597	51.94	48.06	35-51
2.36	1038	3635	72.70	27.30	24-39
1.18	525	4160	83.20	16.80	15-30
0.3	503	4663	93.26	6.74	9-19
0.0175	169	4832	96.64	3.36	3-8
PAN	168	5000	100.00	0.00	0

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R KARTHIK RECHAN
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Technical Manager

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386:(Part 1) 1963 (RA2011)

CP ID: CP-2016-06-04-01-01 Date: 6/6/2016

Client : Assistant Executive Engineer, Yelahanka Sub division , BBMP , Bangalore

Project Name Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone.

Contractor: PJB Engineer Pvt. Ltd., No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Type of Mix DBM (Dense Bituminous Macadam)

Date of test: 6/6/2016

Result:

Flakiness Index = 12.13 %

Elongation Index = 14.05 %

Result: Combined Flakiness & Elongation Index for DBM = 26.17 %

Comments:

Maximum allowable Flakiness & Elongation Index For DBM is 30 %

Note:-

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

CP ID: CP-2016-06-04-01-01 Date: 6/6/2016

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore

Project Name: Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone.

Agency: PJB Engineer Pvt. Ltd.,
No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Type of Mix DBM (Plant)

Date of test: 6/6/2016

Weight of Sample(gm) : 5000

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-13(grading -2)
37.5	0	0	0	100	100
26.5	120	120	2.40	97.60	90-100
19	510	630	12.60	87.40	71-95
13.2	1205	1835	36.70	63.30	56-80
4.75	1055	2890	57.80	42.20	38-54
2.36	650	3540	70.80	29.20	28-42
0.3	1041	4581	91.62	8.38	7-21
0.075	320	4901	98.02	1.98	2-8
PAN	99	5000	0.00	0	0

Note:-
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CIVIL PRO BANGALORE Sig Date

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

CP ID: CP-2016-06-04-01-01 Date: 6/6/2016

Client : Assistant Executive Engineer, Yelahanka Sub division , BBMP , Bangalore

Project Name: Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone.

Agency: PJB Engineer Pvt. Ltd.,
No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Type of Mix DBM (Plant)

Date of test: 6/6/2016

Weight of Sample(gm) : 5000

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-13 (grading -2)
37.5	0	0	0	100	100
26.5	172	172	3.44	96.56	90-100
19	1013	1185	23.70	76.30	71-95
13.2	520	1705	34.10	65.90	56-80
4.75	1150	2855	57.10	42.90	38-54
2.36	710	3565	71.30	28.70	28-42
0.3	1094	4659	93.18	6.82	7-21
0.075	272	4931	98.62	1.38	2-8
PAN	69	5000	0.00	0	0

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Prepared By:
Arunakshi.P

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

CP ID: CP-2016-06-04-02-01 Date: 6/6/2016

Client : Assistant Executive Engineer, Yelahanka Sub division , BBMP , Bangalore

Project Name: Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone

Agency : PJB Engineer Pvt. Ltd., No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Type of Mix DBM (Dense Bituminous Macadam)

Date of test: 6/6/2016

AFTER EXTRACTION

TRIAL 1

Weight of Sample(gm) : 491

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-13(grading -2)
37.5	0	0	0	100	100
26.5	17.3	17.3	3.52	96.48	90-100
19	94.2	111.5	22.71	77.29	71-95
13.2	37.4	148.9	30.33	69.67	56-80
4.75	122.2	271.1	55.21	44.79	38-54
2.36	69.1	340.2	69.29	30.71	28-42
0.3	91.2	431.4	87.86	12.14	7-21
0.075	37	468.4	95.40	4.60	2-8
PAN	22.7	491.1	0.00	0	0

TRIAL 2

Weight of Sample(gm) : 487

IS Sieve Size(mm)	Weight Retained(gm	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-13(grading -2)
37.5	0	0	0	100	100
26.5	14.6	14.6	3.00	97.00	90-100
19	94.2	108.8	22.34	77.66	71-95
13.2	34.4	143.2	29.40	70.60	56-80
4.75	111.2	254.4	52.24	47.76	38-54
2.36	82.1	336.5	69.10	30.90	28-42
0.3	90.2	426.7	87.62	12.38	7-21
0.075	38.4	465.1	95.50	4.50	2-8
PAN	21.9	487	0.00	0	0

Asst. Executive Engineer
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Yelahanka Zone
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF EXTRATION FOR DBM
(AS per IRC:SP:-11-1984)

CP ID: CP-2016-06-04-01-01 Date: 6/6/2016
Client : Assistant Executive Engineer, Yelahanka Sub Division , BBMP , Bangalore
Project Name: Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone
Agency: PJB Engineer Pvt. Ltd.,
No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025
Work Order No: EE(Project)/Ynk Zone/WO/11/12-13
Type of Mix DBM (Dense Bituminous Macadam)
Date of test: 4/6/2016

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	514	510
2	Weight of the sample After extraction	B	491	487
3	Bitumen percentage	$\frac{A-B}{A}$ X 100	4.47	4.51
4	Average percentage	%	4.49	

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

CP ID: CP-2016-06-04-01-01 Date: 6/6/2016
Client : Assistant Executive Engineer, Yelahanka Sub division , BBMP , Bangalore
Project Name: Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone.
Agency: PJB Engineer Pvt. Ltd., No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025
Work Order No: EE(Project)/Ynk Zone/WO/11/12-13
Type of Mix DBM (Dense Bituminous Macadam)
Date of test: 6/6/2016

AFTER EXTRACTION

TRAIL 1

Weight of Sample(gm) : 477

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-13(grading -2)
37.5	0	0	0	100	100
26.5	16.4	16.4	3.44	96.56	90-100
19	94	110.4	23.14	76.86	71-95
13.2	40.3	150.7	31.59	68.41	56-80
4.75	105.2	255.9	53.65	46.35	38-54
2.36	70.2	326.1	68.36	31.64	28-42
0.3	90.6	416.7	87.36	12.64	7-21
0.075	38.3	455	95.39	4.61	2-8
PAN	22	477	0.00	0	0

TRAIL 2

Weight of Sample(gm) : 476

IS Sieve Size(mm)	Weight Retained(gm	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-13(grading -2)
37.5	0	0	0	100	100
26.5	17.3	17.3	3.80	96.20	90-100
19	94.2	111.5	24.51	75.49	71-95
13.2	37.4	148.9	32.73	67.27	56-80
4.75	108.2	257.1	56.51	43.49	38-54
2.36	69.1	326.2	71.69	28.31	28-42
0.3	91.2	417.4	91.74	8.26	7-21
0.075	25	442.4	97.23	2.77	2-8
PAN	33.6	476	0.00	0	0

Asst. Executive Engineer
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Bangalore

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TEST RESULTS OF EXTRATION FOR DBM
(AS per IRC:SP:-11-1984)

CP ID: CP-2016-06-04-02-01 Date: 6/6/2016

Client : Assistant Executive Engineer, Yelahanka Sub Division , BBMP , Bangalore

Project Name: Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone

Agency: PJB Engineer Pvt. Ltd.,
No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Type of Mix DBM (Dense Bituminous Macadam)

Date of test: 4/6/2016

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	477	476
3	Bitumen percentage	$\frac{A-B}{A}$ X 100	4.6	4.8
4	Average percentage	%	4.7	

Note:-
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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

CP ID:	CP-2016-05-24-03-01 Date: 24-05-2016
Client :	Assistant Executive Engineer, Yelahanka Sub Division , BBMP , Bangalore
Project Name	Widining of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone.
Contractor:	PJB Engineer Pvt. Ltd., No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025
Work Order No:	EE(Project)/Ynk Zone/WO/11/12-13
Type of Mix	WMM (Wet Mix Macadam)
Date of test:	24-05-2016

Result:

Flakiness Index = 12.42 %

Elongation Index = 14.23 %

Result: Combined Flakiness & Elongation Index for WMM = 26.65 %

Comments:

Maximum allowable Flakiness & Elongation Index For WMM (Wet Mix Macadam) is 30 %

Note:-
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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATEIS 2386 (Part 1) 1963 (RA 2007)

CP ID: CP-2016-05-24-03-01 Date: 24-05-2016

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore

Project Name Widining of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone.

Agency : PJB Engineer Pvt. Ltd., No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Type of Mix WMM (Wet Mix Macadam)

Date of test: 24-05-2016

Result:

Flakiness Index = 12.29 %

Elongation Index = 14.43 %

Result: Combined Flakiness & Elongation Index for WMM = 26.72 %

Comments:

Maximum allowable Flakiness & Elongation Index For WMM (Wet Mix Macadam) is 30 %

Note:-

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Prepared By:
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

CP ID: CP-2016-05-24-02-01 Date: 24-05-2016

Client : Assistant Executive Engineer, Yelahanka Sub division , BBMP , Bangalore

Project Name Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone

Agency : PJB Engineer Pvt. Ltd.,
No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Type of Mix : WMM (Wet Mix Macadam)

Date of test: 24-05-2016

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	352	352
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	70.91	71.45
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	280.55	280.0
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be	A-(B+C)	0.54	0.55
5	Aggregate impact value	(B/A)*100	20.14	20.30
6	Aggregate impact value (Mean of two tests)		20.22	

Note:-
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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

CP ID: CP-2016-05-24-02-01 Date: 24-05-2016

Client : Assistant Executive Engineer, Yelahanka Sub division , BBMP , Bangalore

Project Name Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone

Agency : PJB Engineer Pvt. Ltd.,
No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Type of Mix : WMM (Wet Mix Macadam)

Date of test: 24-05-2016

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	345	345
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.88	74.01
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	270.78	270.25
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and	A-(B+C)	0.34	0.74
5	Aggregate impact value	(B/A)*100	21.41	21.45
6	Aggregate impact value (Mean of two tests)		21.43	

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TEST RESULTS OF GRADATION FOR WMM

CP ID: CP-2016-05-24-01-01

Date: 24-05-2016

Client : Assistant Executive Engineer, Yelahanka Sub division , BBMP , Bangalore

Project Name Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone.

Agency : PJB Engineer Pvt. Ltd.,
No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Type of Mix WMM (Wet Mix Macadam)

Date of test: 24-05-2016

Oven Dry Weight(gm) : 11585

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.11 MORTH Specification
53	0	0	0	100	100
45	335	335	2.89	97.11	95-100
22.4	2259	2594	22.39	77.61	60-80
11.2	2171	4765	41.13	58.87	40-60
4.75	2258	7023	60.62	39.38	25-40
2.36	1602	8625	74.45	25.55	15-30
0.6	610	9235	79.72	20.28	8-22
0.075	2150	11385	98.27	1.73	0-8

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TEST RESULTS OF GRADATION FOR WMM
(IS 2386:(Part 1) 1963 (RA2011)

CP ID: CP-2016-05-24-01-01 Date: 24-05-2016

Client : Assistant Executive Engineer, Yelahanka Sub division , BBMP , Bangalore

Project Name Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone.

Agency : PJB Engineer Pvt. Ltd.,
No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Type of Mix WMM (Wet Mix Macadam)

Date of test: 24-05-2016

Oven Dry Weight(gm) : 12700

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.11 MORTH Specification
53	0	0	0	100	100
45	0	0	0.00	100.00	95-100
22.4	2586	2586	20.36	79.64	60-80
11.2	2568	5154	40.58	59.42	40-60
4.75	2190	7344	57.83	42.17	25-40
2.36	2206	9550	75.20	24.80	15-30
0.6	710	10260	80.79	19.21	8-22
0.075	1665	11925	93.90	6.10	0-8

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TEST RESULTS OF GRADATION FOR WMM
(IS 2386:(Part 1) 1963 (RA2011)

CP ID: CP-2016-05-24-01-01

Date: 24-05-2016

Client : Assistant Executive Engineer. Yelahanka Sub division, BBMP , Bangalore

Project Name Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone.

Agency : PJB Engineer Pvt. Ltd.,
No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Type of Mix WMM (Wet Mix Macadam)

Date of test: 24-05-2016

Oven Dry Weight(gm) : 11490

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.11 MORTH Specification
53	0	0	0	100	100
45	295	295	2.57	97.43	95-100
22.4	2218	2513	21.87	78.13	60-80
11.2	2205	4718	41.06	58.94	40-60
4.75	2386	7104	61.83	38.17	25-40
2.36	2250	9354	81.41	18.59	15-30
0.6	610	9964	86.72	13.28	8-22
0.075	825	10789	93.90	6.10	0-8

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TEST RESULTS OF GRADATION FOR WMM
(IS 2386:(Part 1) 1963 (RA2011)

CP ID: CP-2016-05-24-01-01 Date: 24-05-2016

Client : Assistant Executive Engineer. Yelahanka Sub division, BBMP , Bangalore

Project Name Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone.

Agency : PJB Engineer Pvt. Ltd.,
No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Type of Mix WMM (Wet Mix Macadam)

Date of test: 24-05-2016

Oven Dry Weight(gm) : 11595

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.11 MORTH Specification
53	0	0	0	100	100
45	230	230	1.98	98.02	95-100
22.4	2596	2826	24.37	75.63	60-80
11.2	2611	5437	46.89	53.11	40-60
4.75	2015	7452	64.27	35.73	25-40
2.36	1922	9374	80.85	19.15	15-30
0.6	825	10199	87.96	12.04	8-22
0.075	746	10945	94.39	5.61	0-8

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

CP ID: CP-2016-05-19-01-01

Date: 19-05-2016

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore

Project Name Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone

Agency : PJB Engineer Pvt. Ltd.,
No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Type of Mix GSB (Granular Sub Base)

Date of test: 19-05-2016

Oven Dry Weight(gm) : 10120

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	996	996	9.84	90.16	80-100
26.5	1686	2682	26.50	73.50	55-90
9.5	1292	3974	39.27	60.73	35-65
4.75	1490	5464	53.99	46.01	25-55
2.36	1764	7228	71.42	28.58	20-40
0.425	1666	8894	87.89	12.11	10-25
0.075	896	9790	96.74	3.26	3-10

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results
1	Liquid Limit, %	21.33%
2	Plasticity index, %	Non plastic

Note:-
The results pertain to the samples received and tested.
Any correction in the report will make this report invalid
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Samples will be disposed after 15 days from the date of issue of test certificate

Prepared By:
Arunakshi P.

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

FOR CIVIL Pro.

R KARTHIK RECHAN
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Technical Manager

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

CP ID: CP-2016-05-19-01-01

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore

Date: 19-05-2016

Project Name: Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08, Yelahanka Zone.

Agency : PJB Engineer Pvt. Ltd.,
No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Type of Mix GSB (Granular Sub Base)

Date of test: 19-05-2016

Oven Dry Weight(gm) : 10455

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	880	880	8.42	91.58	80-100
26.5	1474	2354	22.52	77.48	55-90
9.5	1388	3742	35.79	64.21	35-65
4.75	1431	5173	49.48	50.52	25-55
2.36	1683	6856	65.58	34.42	20-40
0.425	1696	8552	81.80	18.20	10-25
0.075	1459	10011	95.75	4.25	3-10

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results
1	Liquid Limit, %	22.15%
2	Plasticity index, %	Non plastic

Note:-
The results pertain to the samples received and tested.
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Samples will be disposed after 15 days from the date of issue of test certificate

Prepared By:
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Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

CP ID: CP-2016-04-19-01-01

Date: 19-04-2016

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore

Project Name Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone

Agency: PJB Engineer Pvt. Ltd.,
No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025

SampleType : M20 Drain Concrete

Age of the sample: 28 days Compressive Strength

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Reference to BIS codes: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test: 19-04-2016

Sl. No.	Identification of sample	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen mm	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (kN)	Compressive strength (N/mm2)	Average Compressive Strength (N/mm^2)
1	1/4	M 20	22-03-2016	19-04-2016	151.99X149.76 X150.11	22762	8.130	550.6	24.2	24.1
	1/5	M 20	22-03-2016	19-04-2016	151.23X149.55 X148.99	22616	8.170	549.0	24.3	
	1/6	M 20	22-03-2016	19-04-2016	150.87X150.24 X150.22	22666	8.143	540.6	23.9	

Note :-

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Authorized Signature
Technical Manager
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TEST REPORT OF CEMENT CONCRETE CUBES

CP ID: CP-2016-04-18-01-01 Date: 18-04-2016

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore

Address: No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025

Project Name Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone

Agency: PJB Engineer Pvt. Ltd., No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025

SampleType : M20 Drain Concrete

Age of the sample: 28days Compressive Strength

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Reference to BIS codes: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test: 18-04-2016

Sl. No.	Identification of sample	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen mm	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (kN)	Compressive strength (N/mm2)	Average Compressive Strength (N/mm^2)
1	1/4	M 20	21-03-2016	18-04-2016	151.99X149.76 X150.11	22762	8.130	543.6	23.9	24.0
	1/5	M 20	21-03-2016	18-04-2016	151.23X149.55 X148.99	22616	8.170	552.0	24.4	
	1/6	M 20	21-03-2016	18-04-2016	150.87X150.24 X150.22	22666	8.143	535.6	23.6	

Note:-

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TEST REPORT OF CEMENT CONCRETE CUBES

CP ID: CP-2016-04-14-01-02 Date: 14-04-2016

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore

Project Name Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone.

Agency: PJB Engineer Pvt. Ltd.,
No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025

SampleType : M15, Drain Concrete

Age of the sample: 28days Compressive Strength

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Reference to BIS codes: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test: 14-04-2016

Sl. No.	Identification of sample	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen mm	Cross sectional area (Sq.mm)	Weight (kg)	Failure Load (kN)	Compressive strength (N/mm2)	Average Compressive Strength (N/mm^2)
1	1/4	M 15	17-03-2016	14-04-2016	149.33X150.77 X 150.92	22514	8.173	400.9	17.8	18.2
	1/5	M 15	17-03-2016	14-04-2016	150.95X149.53 X151.03	22571	8.135	418.3	18.5	
	1/6	M 15	17-03-2016	14-04-2016	149.55X151.02 X 150.43	22585	8.201	410.7	18.2	

Note:-

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Technical Manager

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TEST RESULTS OF PHYSICAL PROPERTIES OF CEMENT 53- GRADE

CP ID: CP-2016-03-14-01-04 **Date: 11-04-2016**

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore

Project Name Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone.

Agency : PJB Engineer Pvt. Ltd.,
No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Sample Id : 2016-03-14-01-01

Type of sample Birla Super 53 Grade

Date of test: 14/3/2016 to 11/04/2016

Sl.No.	Physical properties	Results	Requirement as per IS 12269 : 2013
1	Standard Consistency	29.5%	Not specified
2	Initial Setting time	165 minutes	Not less than 30 minutes
3	Final Setting time	290 minutes	Not more than 600 minutes
4	Compressive Strength		
	3 Days	28.5N/mm^2	Not less than 23 N/mm2
	7 Days	38.0N/mm^2	Not less than 33 N/mm2
	28 Days	54.5N/mm^2	Min 43 N/mm2 Max 58 N/mm^2

Note:-
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Prepared By:
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TEST REPORT OF CEMENT CONCRETE CUBES

CP ID: CP-2016-03-29-01-01 Date: 29-03-2016

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore

Address: No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025

Project Name Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone.

Agency: PJB Engineer Pvt. Ltd., No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025

SampleType : M20 Drain Concrete

Age of the sample: 7 days Compressive Strength

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Reference to BIS codes: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test: 29-03-2016

Sl. No.	Identification of sample	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen mm	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (kN)	Compressive strength (N/mm2)	Average Compressive Strength (N/mm^2)
1	1/1	M 20	22-03-2016	29-03-2016	149.55X151.71 X 150.21	22688	8.127	389.4	17.2	17.1
	1/2	M 20	22-03-2016	29-03-2016	150.28X150.43 X150.56	22606	8.210	389.3	17.2	
	1/3	M 20	22-03-2016	29-06-2016	151.22X150.98 X150.08	22831	8.154	384.5	16.8	

Note:-

The results pertain to the samples received and tested.

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TEST REPORT OF CEMENT CONCRETE CUBES

CP ID: CP-2016-03-28-01-01 Date: 28-03-2016

Client : Assistant Executive Engineer, Yelahanka Sub Division , BBMP , Bangalore

Address: No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025

Project Name Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone.

Agency: PJB Engineer Pvt. Ltd., No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

SampleType : M20 Drain Concrete

Age of the sample: 7 days Compressive Strength

Reference to BIS codes: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test: 28-03-2016

Sl. No.	Identification of sample	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen mm	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (kN)	Compressive strength (N/mm2)	Average Compressive Strength (N/mm^2)
1	1/1	M 20	21-03-2016	28-03-2016	149.55X151.71 X 150.21	22688	8.127	388.4	17.1	16.8
	1/2	M 20	21-03-2016	28-03-2016	150.28x150.43 x150.56	22606	8.210	376.3	16.6	
	1/3	M 20	21-03-2016	28-06-2016	151.22x150.98 x 150.08	22831	8.154	380.5	16.7	

Note:-

The results pertain to the samples received and tested.

Any correction in the report will make this report invalid.

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Samples will be disposed after 15 days from the date of issue of test certificate

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TEST REPORT OF CEMENT CONCRETE CUBES

CP ID: CP-2016-03-24-01-01 Date:24-03-2016

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore

Project Name Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone.

Agency: PJB Engineer Pvt. Ltd.,
No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025

SampleType : M15, Drain Concrete

Age of the sample: 7days Compressive Strength

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Reference to BIS codes: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test: 24-03-2016

Sl. No.	Identification of sample	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen mm	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (kN)	Compressive strength (N/mm2)	Average Compressive Strength (N/mm^2)
1	1/1	M 15	17-03-2016	24-03-2016	150.17X150.55 X 151.71	22608	8.130	230.8	10.2	10.7
	1/2	M 15	17-03-2016	24-03-2016	150.95X150.33 X150.03	22692	8.170	254.1	11.2	
	1/3	M 15	17-03-2016	24-03-2016	150.87X150.70 X150.13	22736	8.143	244.0	10.7	

Note:-

The results pertain to the samples received and tested.

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FOR CIVIL Pro.

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TEST RESULTS OF GRADATION FOR COARSE AGGREGATE
IS 2386 (Part 1) 1963 (RA 2007)

CP ID: CP-2016-03-14-01-04 **Date: 16-03-2016**

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore

Project Name Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone.

Agency : PJB Engineer Pvt. Ltd.,
No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Type of Sample : 40mm down size coarse aggregate

Sample Id : 2016-03-14-01-03

Date of test: 16-03-2016

Oven Dry Weight(gm) : 15000

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Required as per IS 383:1970
80	0	0	0	100	100
40	535	535	3.57	96.43	95-100
20	7800	8335	55.57	44.43	30-70
10	2985	11320	75.47	24.53	10-35
4.75	3400	14720	98.13	1.87	0-5
Pan	280	15000	100.00	0.00	0

Note:-
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TEST RESULTS OF FINE AGGREGATE

CP ID: CP-2016-03-14-01-04 **Date: 16-03-2016**

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore

Project Name Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone.

Agency : PJB Engineer Pvt. Ltd., No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Type of Sample Fine aggregate

Sample Id : 2016-03-14-01-02

Date of test: 16-03-2016

Total Weight of the Sample taken : 1000 gms

SL. No	Sieve size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970				Remarks
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV	
1	10 mm	0	0	0	100	100	100	100	100	The tested Sample Conforms to Grading Zone I
2	4.75 mm	64	64	6.4	93.6	90-100	90-100	90-100	95-100	
3	2.36 mm	155	219	21.9	78.1	60-95	75-100	85-100	95-100	
4	1.18 mm	370	589	58.9	41.1	30-70	55-90	75-100	90-100	
5	600 micron	229	818	81.8	18.2	15-34	35-59	60-79	80-100	
6	300 micron	106	924	92.4	7.6	5-20	8-30	12-40	15-50	
7	150 micron	26	950	95	5.0	0-10	0-10	0-10	0-15	
8	Pan	50	1000	100	0	---	---	---	---	

Note:-

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TEST RESULTS OF STEEL
(IS 1786-2008)

CP ID: CP-2016-03-14-01-01 **Date: 16-03-2016**

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore

Project Name Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone.

Agency : PJB Engineer Pvt. Ltd.,
No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Type of Sample JSW, 8mm Dia, Fe 415

Sample Id : 2016-03-14-01-04

Date of test: 16-03-2016

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	JSW	Fe 415	8mm	0.386	452	538	18%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	JSW	Fe 415	8mm	Satisfactory	Satisfactory

Note

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Prepared By:
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TEST RESULTS OF STEEL
(IS 1786-2008)

CP ID: CP-2016-03-14-01-01 **Date: 16-03-2016**

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore

Project Name Widening of Road from Bhadrappa Layout signal to Kodigehalli circle Chainage 0.00mtr to 1500.00mtr , Ward No. 08 , Yelahanka Zone.

Agency : PJB Engineer Pvt. Ltd.,
No.143, Tathna Building, 4th Floor, Richmond road, Bangalore-560025

Work Order No: EE(Project)/Ynk Zone/WO/11/12-13

Type of Sample JSW,10mm Dia, Fe 415

Sample Id : 2016-03-14-01-04

Date of test: 16-03-2016

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
2	JSW	Fe 415	10mm	0.616	470	563	20%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
2	JSW	Fe 415	10mm	Satisfactory	Satisfactory

Note:-
The results pertain to the samples received and tested.
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 15 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Technical Manager

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